

## CE DECLARATION OF PERFORMANCE

according to Regulation (EU) No. 305 of the European Parliament and the Council of 9 March 2011

DOP no.	DOP-506-00
1 Unique product identification code:	506 (recipe no.) 12 to 20 mm (panel thickness)
2 Use:	Use as rigid underlay in humid conditions in walls and in pitched roofs with overlapping cladding ; Indoor use for load-bearing purposes (only panel stress action) for use in dry and humid conditions and according to the general building permit Z-9.1-454.
3 Name and Manufacturer Registered trade name or registered brand and contact address of the manufacturer:	<b>EGGER DHF</b>  EGGER Holzwerkstoffe Wismar GmbH & Co KG Am Haffeld 1 D-23970 Wismar web: <a href="http://www.egger.com">www.egger.com</a>
4 not applicable	
5 System for the assessment and verification of constancy of performance of the building product:	System 2+
6 Harmonized standard	EN 13986:2004+A1:2015 EN 14964:2006
Notified body:	Nr. 0765  Wilhelm-Klauditz-Institut (WKI) Bienroder Weg 54 e D-38108 Braunschweig

7 Declared performance:

Specification		unit	Panel thickness [mm]	
			12 - 20	
Bending strength	acc. to EN 310	N/mm <sup>2</sup>	≥ 17	
Modulus of Elasticity	acc. to EN 310	N/mm <sup>2</sup>	≥ 2000	
Internal bond	acc. to EN 319	N/mm <sup>2</sup>	≥ 0.30	
Internal bond	Boil test acc. to EN 319 + EN 1087	N/mm <sup>2</sup>	≥ 0.06	
Technical class	acc. to EN 622-5	-	MDF.RWH	
Type	acc. to EN 14964	-	IL - interlocking	

Essential characteristics		unit	Panel thickness [mm]					Harmonized technical specification	
			12 - 20						
Durability	thickness swelling 24h	%	≤ 6.5					EN 13986:2004+A1:2015 EN 14964:2006	
	Internal bond - Option 2	N/mm <sup>2</sup>	≥ 0.06						
	mechanical		k <sub>def</sub>	k <sub>mod permanent</sub>	k <sub>mod long</sub>	k <sub>mod medium</sub>	k <sub>mod short</sub>		k <sub>mod instantaneous</sub>
		SC1	3.0	0.20	0.40	0.60	0.80		1.10
SC2	4.0	-	-	-	0.45	0.80			
	biological ( use class)		UC 1 & 2						
Release of Formaldehyde	acc.to EN 717-1	ppm	< 0.03 (formaldehyde free bonding) – emission class E1						
Release of PCP		ppm	< 3.0						
Density		kg/m <sup>3</sup>	600 – 650 kg/m <sup>3</sup>						
Water vapour permeability	μ (dry / wet)	-	11 / 11						
Thermal conductivity		W/mK	0.10						
Airborne sound insulation	sound absorption coefficient	-	0.10 / 0.25 (frequency range 250 - 500 Hz / 1000-2000 Hz)						
	sound insulation R	dB	R = 14 * lg(m <sub>A</sub> ) + 13 (area mass m <sub>A</sub> , frequency range 1 to 3 kHz)						
Air permeability	acc. to EN 12114 (at 50Pa pressure difference)	m/(m <sup>2</sup> * h)	NPD						
Reaction to fire *)		class	Minimum thickness [mm]						
	without air gap behind MDF a,b,e,f	D-s2, d0	9 mm						
	with closed air gap or open air gap ≤ 22mm behind MDF c,e,f	D-s2, d0	9 mm						
	with closed air gap behind MDF d,e,f	D-s2, d0	15 mm						
	with open air gap behind MDF d,e,f	D-s2, d0	18 mm						

Essential characteristics		unit	Panel thickness [mm] 12 - 20	Harmonized technical specification
<b>Characteristic strength</b>				EN 13986:2004+A1:2015 EN 14964:2006
Bending $f_m$	0° / 90°	N/mm <sup>2</sup>	19,0	
Tension $f_t$	0° / 90°	N/mm <sup>2</sup>	11,7	
Compression $f_c$	0° / 90°	N/mm <sup>2</sup>	9,6	
Shear $f_v \perp$ panel surface	0° / 90°	N/mm <sup>2</sup>	3,4	
Shear $f_v$ in panel surface	0° / 90°	N/mm <sup>2</sup>	NPD	
<b>Mean stiffness</b>				
Bending $E_m$	0° / 90°	N/mm <sup>2</sup>	3000	
Tension $E_t$	0° / 90°	N/mm <sup>2</sup>	2100	
Compression $E_c$	0° / 90°	N/mm <sup>2</sup>	2000	
Shear $G_v \perp$ panel surface	0° / 90°	N/mm <sup>2</sup>	600	
Shear $G_v$ in panel surface	0° / 90°	N/mm <sup>2</sup>	100	
<b>Impact resistance</b>		N/mm <sup>2</sup>	NPD	
<b>Embedding strength</b>		N/mm <sup>2</sup>	37,4 N/mm <sup>2</sup> $d_n \leq 3$ mm fastener diameter 18,0 N/mm <sup>2</sup> $d_n > 3-8$ mm: fastener diameter	
<b>Racking resistance</b>		N/mm <sup>2</sup>	to be designed acc. to EN 1995-1-1	
<b>Performance wall</b> EN 12871 / EN 596	soft body impact	-	Pass	
	panel thickness	mm	≥ 12	
<b>Performance roof</b>	ZVDH product datasheet	-	UDP-A	
	ZVDH product datasheet	-	UDP-A	

8 not applicable

The product performance according to number 1 corresponds to the declared performance according to number 7. Solely the manufacturer is responsible for drafting the declaration of performance according to number 3.

Signed for the manufacturer and in the name of the manufacturer by:



Thomas Schlund

EGGER Building Products – Head of Division  
Technology/Production

Wismar, 18.10.2016

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\*) Note:

- a Without air gap installed directly on products in classes A1 or A2-s1, d0 with a minimum raw density of 10 kg/m<sup>3</sup> or at least products of class D-s2, d2 with a minimum raw density of 400 kg/m<sup>3</sup>.
- b An underlayment made of cellulose thermal insulation material of at least class E may be used if installed directly behind the wood-based material; however, this does not apply to flooring.
- c Installed with air gap behind, the product bordering with its rear side the empty space must correspond at least to class A2-s1,d0 with a minimum raw density of 10 kg/m<sup>3</sup>.
- d Installed with air gap behind, the product bordering with its rear side the empty space must correspond at least to class D-s2,d2 with a minimum raw density of 400 kg/m<sup>3</sup>.
- e With the exception of flooring, the class also corresponds to veneered, phenol and melamine-faced boards.
- f A vapour barrier with a thickness of up to 0.4 mm and a mass of up to 200 g/m<sup>2</sup> may be installed between the wood-based material and the underlayment if there is no air gap in between.